

Claims

1 1. (canceled)

SUB BT 2. (currently amended) The method according to claim 1 wherein said grouping step includes the
2 step of:

3 A method of assigning identifying indicia to objects in multidimensional space comprising the steps
4 of:

5 sorting objects initially according to a first dimension of their location in multi- dimensional
6 space;

7 determining ambiguities among coordinate values of their location in the multi-dimensional
8 space according to whether separation of objects in a dimension is less than a predetermined
9 threshold value;

10 grouping subsets of objects according to ambiguities in the objects; and

11 ordering ambiguous objects in subsets according to other dimensions of the multidimensional
12 space.

1 3. (original) The method according to claim 2 wherein said determining step includes the step of
2 ascertaining a predetermined threshold value based on known errors of position measurements.

1 4. (currently amended) The method according to claim 1 including an initial step of:
2 selecting as the first dimension of a multidimensional coordinate system that dimension along
3 which separation of objects exhibits the greatest dispersion.

1 5. (currently amended) The method according to claim 1 including an initial step of:
2 step of:
3 determining ambiguities among coordinate values according to whether separation of targets is
4 less than any of a plurality of predetermined threshold values.

1 6. (original) The method according to claim 2 wherein said determining step includes the step of:
2 ascertaining a predetermined threshold value based on a maximum rate of change of position of
3 one target with respect to any other.

1 7. (original) The method according to claim 5 wherein said determining step includes the steps of:
2 ascertaining one of said predetermined threshold values based on maximum rate of change of
3 position of one object with respect to any other; and
a' 4 ascertaining another one of said predetermined threshold values based on the random
5 errors of measurements in positions of the objects.

1 8. (original) A method of sorting indicia corresponding to objects moving through a
2 multidimensional space comprising the steps of:
3 scanning the multidimensional space to detect positions of objects therein;
4 assigning unique indicia to each detected object;
5 sorting assigned indicia along one coordinate axis of the multidimensional space;
6 grouping into subsets any indicia exhibiting an ambiguity along the coordinate axis; and
7 ordering indicia in subsets according to other coordinate axes of the multidimensional space.
